



Lake Superior Citizens Fishery Advisory Committee

A citizen-based committee charged to review and provide input and advice relative to fishery goals, objectives and management plans for Lake Superior. Members assist Fisheries Division in charting the future course of fisheries management by providing voice to and for the diversity of citizens' interests in the Lake Superior basin.

Alger County
Fish and Game Alliance

Bay Mills Indian Community

Central Upper Peninsula
Sport Fishing Association

Copper Country Trout
Unlimited

DNR Fisheries Division

DNR Law Enforcement
Division

Fisher Price Charters

Fred Waara Chapter Trout
Unlimited

Indian Country Sports

Keweenaw Splake Anglers

Lake Superior Advisor

Lake Superior State
University Aquatic
Research Laboratory

Michigan Sea Grant

Michigan United
Conservation Clubs

Office of the Great Lakes

South Shore Fishing
Association

Thill's Fish House, Inc.

Upper Peninsula
Sportsman Alliance

Lake Superior Citizens Fishery Advisory Committee Meeting Marquette DNR Operations Service Center

April 10, 2013
10:00 a.m. – 3:00 p.m.

Committee members and Attendees:

Full listing of membership is attached (Attachment 1), with the names of attendees for the April 10, 2013 meeting highlighted in light green.

Agenda:

Attached (Attachment 2).

Minutes

Recorded by George Madison

Intro:

Phil Schneeberger provided introductions. We discussed the opportunity to hold two Lake Superior Citizens Fish Advisory Committee (LSCFAC) meetings per year, with the provision that the October meeting will be scheduled, but only held if necessary if special issues arise.

The minutes of each LSCFAC will be posted on the Michigan DNR website (http://www.michigan.gov/dnr/0,4570,7-153-39002_61625---,00.html). The Lake Superior Committee still needs representation from the western UP areas such as from Gogebic County. We invited as an Observer Status for today's meeting, Peter Stevens, Wisconsin DNR's fish supervisor in Bayfield, however conflicts with his schedule prevented him from being able to attend via the call-in conference line.

- Committee business:

- Approval of April 2012 meeting minutes:

- There were no objections to the April 2012 meeting minutes, therefore the minutes were approved.

- Selecting a new committee chair:

- There was discussion for a committee member to volunteer to be the new Chair of the LSCFAC, and discussion of the role of this position. The terms of reference for the Chair position

were described. Michigan DNR staff explained the assistance that can be provided to assist the Chair's with arranging the group-meeting duties. Following no volunteers, member Mylan Koski graciously offered his willingness to serve in this capacity. A round-table vote from members was solicited and there were no objections to Mr. Koski's volunteer offer, and the group therefore accepted Mylan Koski from the South Shore Fishing Association as the new Chair of the Lake Superior Citizens Fish Advisory Committee. Congratulations Mylan!

- 2013 stocking summaries:

Handouts were provided to the group (Attachment 3). The stocking numbers indicated on the document indicate the requested stocking allotment from the State Fish hatcheries. In waters where only 1-fish is requested, this is a place-holder that designates this site as requesting fish however the stocking will occur only if surplus fish are available within the hatchery system. These are waters with trial stocking programs (i.e., Golf Course Road rainbow trout and brown trout, Keweenaw Bay hybrid splake stocking) where we do not want the hatcheries to procure extra eggs for the development of this program, and we'll use surplus fish for these management experiments.

The group was reminded that the availability of the fish for the annual stocking requests is variable. Walleye for summer stocking is always subject to spring weather growing conditions, and a cold spring can dampen production numbers whereby a favorable spring can produce a strong rearing supply. With designations for adult brook trout, there are usually more allocation requests than what the fall supply can fill. The two-letter codes of fish denoted in the allocation document are as follows; YR designates yearling stock, FF designates fall fingerling stock, SF designates spring fingerling stock, AD designates adult stock, FR designates fry stock. The sizes of these fish are approximately as follows; YR-brook trout = 8", YR-splake = 7.5", FF-brook trout = 5.5", AD-brook trout = 18"-21", FR-walleye = 1/16".

- Potential splake stocking in Keweenaw Bay:

Beginning spring 2013, Michigan DNR's West Lake Superior Management Unit will be embarking on an experimental splake stocking program for Lake Superior's Keweenaw Bay. Historically three ports in Lake Superior have received splake stockings; Munising, Marquette, and Copper Harbor. From time to time surplus splake are available within the State hatchery system and we have regularly distributed these additional fish amongst the three established ports. It is best not to exceed recommended stocking levels at any given port, so a fourth stocking site, Keweenaw Bay, has been approved for the allocation of surplus splake. The three traditional stocking sites will still receive their recommended level of splake stocking, however when production levels of splake are above the recommended levels, the additional fish will go to Keweenaw Bay. This project is an experimental program, and as such there is no request to the hatcheries to

produce additional fish for Keweenaw Bay. A creel survey program exists at Keweenaw Bay, which will allow for an evaluation of returns of the stocking to the angler creel. Annual good winter ice conditions on Keweenaw Bay will hopefully allow for this program to enhance the winter sport fishery.

- Study design to evaluate 10-brook trout bag limit rivers:

Handouts (Attachment 4) were provided to the group, detailing the study design for the new 2013 brook trout sport fishing regulation, which allows for the harvest of 10 brook trout on selected portions of five Upper Peninsula trout rivers.

The map with this handout depicts where the five 10-bag rivers are located; East Branch Ontonagon, East Branch Huron, Upper Dead River, Driggs River, and the East Branch Tahquamenon. The rivers on the map have associated codes of which the definitions mean; T = treatment river (meaning a 10-bag regulation river), C = control river, which will be used as a paired study river to compare with a treatment river, FS = fixed site sampling protocol (DNR standardized electrofishing methodology) and a “?” = rivers that will be evaluated as potential candidates for inclusion into the 10-bag regulation in 2015.

Most of these rivers will be evaluated during the period of 2013-2017 using a mix, or all, of the following techniques; electrofishing surveys, creel clerk visits, post card surveys, and an opportunity for anglers to comment via an internet on-line website. The survey sampling on the “?” designated streams will allow for the collection of pre-data before any of these rivers are selected to be either included or not into the 10-bag regulation category in 2015.

There was a request that due consideration be given for the East Branch of the Presque Isle River, for it to continue to be a nominee river for the suite of rivers to be included into the regulation in 2015. The group was reminded that the most appropriate type of river for this study will be a system that gets moderate to heavy fishing pressure so that we will be able to evaluate whether the 10-bag possession limit truly impacts the brook trout population or not.

Many brook trout stakeholder groups were involved with developing the regulation study design with the Michigan DNR Fisheries Division. LSCFA members who were involved with the study design process had positive comments about the process of engaging stakeholders into this project. There was an additional comment that we need to use social media (Facebook, internet, media releases) to get the news out to brook trout anglers that this study will be underway this spring. The Department will be issuing press releases very soon, and will be including this information on the DNR Facebook page and other forms of media resources.

- Dead River dam implications:

Earlier this year, the DNR had received an e-mail inquiring about the recent dredging of the lower Dead River in Marquette and the rationale behind that. Given that the lower Dead River is a Chinook salmon stocking site of Lake Superior, it warrants an explanation of the recent activities that have occurred here.

The May 2003 catastrophic flood and subsequent failure of two dams on Marquette County's Dead River created a massive discharge of sediment to the lower river. The sediment from this flood, and from the collapse of the Tourist Park Impoundment (upstream about 2-miles from Lake Superior), settled into the lower river valley floor essentially filling up the river valley channel whereby the water depth went from many feet to merely inches. The shallowness of the water discouraged fall salmonids or spring steelhead from ascending the river during their spawning runs.

In the summer of 2011, as part of the Dead River restoration settlement, Upper Peninsula Power Company contracted to dredge and restore the lower section of river to a healthy river corridor configuration. Many levels of fluvial geomorphic assessment went into designing a natural river channel, which included the installation of bank-toe wood structures to provide habitat for fish.

The dredging project proceeded well during the 2011 summer, and by October anglers were fishing spawning run Chinook salmon below the Tourist Park falls. Additionally, a few day-residents from the Marquette General Hospital were visiting the river and were enjoying an afternoon of fishing. The results of this work provided a fall salmon run fishing opportunity for an urban center, and we believe this project was a success.

During the dam reconstruction period, many people advocated for the project to allow for a free-flowing river, or possibly having a fish ladder incorporated into the hydroelectric dam design. While the Michigan DNR Fisheries Division requested free flowing connectivity of the river, and/or fish passage to the dam, decision makers beyond our jurisdiction settled on a fixed in-stream dam with no fish passage.

The Marquette Board of Light and Power is the electric company that manages the hydroelectric facility here, and oversees the development of the impoundment behind the new Tourist Park dam. This Power Company has been very good to work with, as they have incorporated numerous water based recreation themes into the restoration program including; walking trails, handicap fishing pier, fish stocking of smallmouth bass and bluegills, of which the Power Company is paying for these costs.

The LSCFA members had some general discussion of this project, with a request to someday see the replacement of the fishing pier that was constructed and paid for by the Central Upper Peninsula Sport Fishing Association. This pier was

located on the Dead River below the Tourist Park Dam, which was removed by the force of the 2003 floodwaters.

- Law Division update:

Michigan DNR Law Division's Commercial Fish Enforcement Unit (CFEU) officers, Mr. Terry Short and Ms. Shannon VanPatten gave an overview of the CFEU 2012 activities. Since last year, Officer Short has been promoted to the Supervisor of the Commercial Fish Enforcement Unit. Ms. VanPatten serves as a Corporal within this Law Division unit.

The CFEU currently is staffed with four people; 3 boat captains and 1 investigator; and has four boat captain vacancies as follows, Cedar River, Leland, Roger's City, and Charlevoix. The CFEU has spent 4967 hours on Consent decree enforcement, 2589 hours on State Commercial fisheries enforcement, and 399 hours on Wholesale fish enforcement. The CFEU also works at public festival events, vessel patrols and inspections, and with work on bait industry inspections. Additionally the Fish Enforcement Unit works with training programs with the State Motor Carrier officers looking at live-fish hauling trucks for reviews for transportation of invasive species (i.e., Asian carp) and non-native fish species.

We had a presentation that reviewed the CFEU work on a grass carp (prohibited species in Michigan) sales operation in Midland Michigan located at a Tractor Supply store parking lot. This was an illegal operation of which the driver was convicted with a sentence of a year in jail and various significant fines, along with a possible prohibition of future selling in Michigan.

Another presentation summarized numerous illegal commercial netting operations, often Tribal subsistence fishermen operating illegally or without license, and subsequent minor fines placed upon them.

Additional work by the CFEU addressed issues of abandoned nets, Coast Guard work, projects associated with the Michigan/Canada international boundary off Sault Ste. Marie, and international border patrols.

LSCFAC members discussed the high value cisco roe market in western Lake Superior, along with overseas markets for whitefish roe. This discussion evolved into the low staffing levels of the CFEU, particularly with the high volume of water and roadways that need inspection, and the extreme low pay scale of Michigan Conservation Officers when compared to other States. Many neighboring Great Lakes jurisdictions have better staffed and better paid commercial fish enforcement units, and the State of Michigan has a difficult time recruiting new officers in face of better pay and benefit packages that other jurisdictions offer.

LSCFAC members asked if the CFEU was inspecting the aquatic pet industry trade. Sadly enough, there is no review of this industry and the industry is not eager to participate in best management practices.

- Cormorant EIS status for 2013:

Cormorant control in Michigan's Great Lakes waters is conducted by the United States Department of Agriculture's Animal and Plant Health Inspection Service (APHIS). Michigan DNR makes recommendations on where to control bird populations. The Department of Agriculture APHIS receives federal money from Congress to control cormorants that nest on the islands of the Great Lakes by harassing the birds, oiling their nests and culling a targeted number of birds. A national review of depredation order has resulted in the increased level of take of cormorants to 15,500 birds.

A handout was reviewed by the LSCFAC showing trends in the quantity of cormorant control at various islands/bays in upper Lake Huron and upper Lake Michigan, including Bays de Noc. The graphs show declining trends in egg abundances on the islands and declining trends in nesting birds. Overall cormorant populations may be down by more than 50% from 2007 and good strides are being made.

There was discussion on control efforts for islands owned by the Michigan Nature Conservancy, whereby the Conservancy has not given permission for control programs on their islands. Federal shooters and deputized control agents have been working offshore of these islands to control birds that fly to and from the islands, and they have been successful in targeting birds associated with those respective islands.

- Summary of State of Lake Superior report at the March Lake Committee meetings:

The Great Lakes Fishery Commission Upper Lakes Committee was held during March 19-21 in Duluth, Minnesota. One of the primary themes of this session was a Lake Superior State-of-the-Lake series of presentations summarizing the dynamics of Lake Superior from the period of 2006 – 2011. A summary of the presentations is available on the following Great Lakes Fishery Commission website at: http://www.glfc.org/lakecom/video/2013_upper.html

Phil Schneeberger discussed the Conference's presentation themes, including aspects of zooplankton, chemistry, trophic levels, nearshore fishes, Pacific salmonids, cisco, whitefish, and lake trout. We reviewed the Fish Community objectives for Lake Superior with a traffic-stoplight (red light, yellow light, green light) scoring of how well the lake is meeting these objectives.

The following is a summary of the Fish Community Objectives scoring that came out of the meeting.

Condensed overview from Assessing Lake Superior's Fish Community Objectives: T. Pratt (DFO)

<i>Fish Community Objective</i>	<i>Assessment (stop light analogy)</i>
Habitat	Green-Yellow
Prey Species	Green-Yellow
Lake Trout	Green
Lake Whitefish	Green
Walleye	Yellow
Lake Sturgeon	Yellow
Brook Trout	Yellow
Pacific salmon, Rainbow Trout, Brown Trout	Green
Sea Lamprey	Red
Nuisance Species	Yellow
Species Diversity	Green

Key Recommendations

- Work with partners to develop habitat indicators within the Great Lakes Basin Fish Habitat Partnership
- Provide regular surveys of: 1) offshore hydroacoustic; and 2) Lake Sturgeon surveys in conjunction with the Coordinated Science and Monitoring Initiative (CSMI)
- Develop and implement routine assessments and standardized reporting for 1) Brook Trout; 2) inshore fishes; and 3) key invertebrate prey species (Diporeia, Mysis)
- Conduct modelling to assess sustainability of proposed siscowet surveys
- Ensure funding for fisheries surveys in Ontario is conducted on a regular basis
- Evaluate extent of Sea Lamprey attacks on alternative host species and the resulting impacts on Lake Trout wounding and the overall fish community
- Determine relevance of species-specific FCOs under current ecosystem management framework
- Lake Superior brown trout stocking evaluation:
Michigan DNR stocks brown trout for enhancing Lake Superior sport angling at numerous western Upper Peninsula sites, with allocations of approximately 60,000 yearling brown trout annually. Sport and charter boat returns of brown trout to Black River, Ontonagon, Traverse Bay, Keweenaw Bay, and Marquette, are regularly less than 50 fish per year for each port. Michigan DNR fisheries division has been reviewing this Lake Superior stocking program for the past few years and

the trend is showing poor cost-effectiveness in sport catch returns at many locations.

We discussed how the Lake Superior environment is not the best suited for a salmonid species that prefers warmer conditions, such as brown trout. LSCFAC members asked about the opportunity for stocking bays such as Keweenaw Bay. It was pointed out that Keweenaw Bay (Falls River) has been stocked with brown trout in 2008, 2011, and 2012, and so far the stockings of 2008 and 2011 have not materialized in producing brown trout to the sport fishery creel survey.

It was decided that a white-paper issue statement, with management options, will be developed for the spring 2014 LSCFAC meeting as an action decision document.

- Fisheries Division update:

Two noteworthy changes with Fisheries Division since the 2012 LSCFAC meeting have been with staffing; Jim Dexter has been appointed to the Division Chief, and Dr. Edward Baker has been appointed as the Marquette Fisheries Research Station Manager.

We discussed the new Fisheries Division strategic plan document entitled Charting the Course and how this document will provide guidance to the Division operations in the next 5-years. With respect to how the Division will operate, Fisheries Division currently lacks a staffing position to coordinate Aquatic Invasive Species (AIS) issues, and to have a direct link with the Michigan Department of Environmental Quality AIS programs. An AIS coordinator position could be developed within the Division if the new license package proposal is supported by the State Legislature.

There was discussion on the new styling of the 2013 Fishing Guide rulebook. It is smaller so it can fit into a fishing vest or tackle box, which was a result of suggestions by outside reviewers.

Additional discussion ensued summarizing a spring 2013 state budget proposal, of which would potentially fund the replacement of the Research Vessel, Chinook. The RV Chinook is 66 years old and operates with its original engine, and replacement parts are becoming difficult to find. The license fee and budget proposal are in legislative review and some fee structure adjustments are being proposed and considered by the legislature. An important component of the license package is to foster a marketing and outreach program, which is extremely necessary in current media formats.

Next Meeting:

With group discussion of this topic, it was decided that the next Lake Superior Citizens Fishery Advisory Committee meetings will be held October 9, 2013 (if emerging issues warrant holding this meeting), and April 9, 2014.

Adjournment:

The meeting was adjourned at 3:00 PM

(Attachment 1)

2013 Lake Superior Citizens Fishery Advisory Committee members
(April 10, 2013 meeting attendees highlighted in light green)

Name		Organization/affiliation
Ed	Baker	Marquette Fish. Research Stn.
Jim	Dexter	DNR Fisheries, Lansing
Dave	Cromell	Alger County Fish and Game Alliance
Floyd	Dropp	Upper Peninsula Sportsman Alliance
Roger	Greil	Aquatic Research Lab.
Todd	Grischke	Lake Huron BC
Todd	Kalish	LM & LE BC
Skip	Hagy	Michigan DNR, Law Enforcement
Patrick	Hanchin	Charlevoix Fish Research Station
Ron	Kinnunen	Michigan Sea Grant
Steve	Koski	Indian Country Sports
Mylan	Koski	South Shore Fishing Assoc.
Cory	Kovacs	DNR Fisheries, Newberry
Frank	Krist	Lake Huron CFAC
Ronald	Laitinen	Central U.P. Sport Fish. Assoc.
George	Madison	DNR Fisheries
Jerry	Maynard	Fred Waara Chapter T.U.
Doug	Miller	
Doug	Miron	Alger County Fish and Game Alliance
Doug	Moyle	Keweenaw Splake Anglers
Chuck	Payment	Newberry DNR Office
Duncan	Price	Fisher Price Charters
Ross	Rinkinen	Copper Country Walleye Association
Paul	Ripple	Bay Mills Indian Community
Tom	Rozich	Copper Country T.U.
Doug	Scheuneman	Alger County Fish and Game Alliance
Phil	Schneeberger	Marquette Fish. Research Stn.
Steve	Scott	DNR Fisheries
Terry	Short	LED, Comm. Fish. Enforcement Unit
Dan	Thill	Thill's Fish House, Inc.
Al	Trainer	
Amy	Trotter	Michigan United Conservation Clubs
Erik	Uimari	South Shore Fishing Assoc.
Jan	VanAmberg	Thompson State Fish Hatchery
Shannon	VanPatten	LED, Comm. Fish. Enforcement Unit
Russell	Weisinger	Lake Superior Advisor
Stacy	Welling	Michigan Dept. of Nat. Res.
Charles	Westerberg	Upper Peninsula Sportsman Alliance
Pete	Wright	Michigan DNR, Law Enforcement
Evan	Cusick	MUCC
Matt	Preisser	Lake Coordinator OGL

(Attachment 2)

Lake Superior Citizens Fishery Advisory Committee
April 10, 2013 agenda



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Thill's Fish House, Inc.

Upper Peninsula
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Lake Superior Citizens Fishery Advisory Committee spring meeting,
April 10, 2013, Marquette Operations Service Center.

Meeting agenda:

- Committee business
 - Approval of April 2012 meeting minutes
 - Selecting a new committee chair
- 2013 stocking summaries
- Potential splake stocking in Keweenaw Bay
- Study design to evaluate 10-brook trout bag limit rivers
- Dead River dam implications
- Law Division update
- Cormorant EIS status for 2013
- Summary of State of Lake Superior report at the March Lake Committee meetings
- Roundtable / Fisheries Division update

(Attachment 3)

Lake Superior Basin Units, 2013 stocking allocations

Michigan Department of Natural Resources Fisheries Division 2013 Level 2 Spring Stocking Assignments										
Lake Superior Mgt. Unit	County	Stocking Site Name	Twn.	Rng.	Sec.	Species	Strain	Number Age of fish class		
Western	Baraga	ALBERTA POND	49N	33W	18	Brook trout		200 A		
		ALBERTA POND	49N	33W	18	Brook trout		1,000 YR		
		E. Br. Huron River	52N	30W	36	Rainbow trout	Michigan	17,000 YR		
		Golf Course Road	50N	33W	16	Brown trout	Gilchrist Creek	1 FF		
		Golf Course Road	50N	33W	16	Rainbow trout	Michigan	1 FF		
		HURON BAY-COLLINS DRIVE	51N	31W	18	Walleye	Bay De Noc	50,000 SF		
		HURON BAY-COLLINS DRIVE	51N	31W	18	Walleye	Bay De Noc	1,200,000 FR		
		L'Anse Bay	50N	34W	1	Splake	Hybrid	1 YR		
		ROLAND LAKE	51N	31W	12	Brook trout		300 A		
		ROLAND LAKE	51N	31W	12	Brook trout	Assinica	1,500 YR		
		STURGEON RIVER-399367668	48N	35W	10	Brown trout	Wild Rose	2,500 YR		
		STURGEON RIVER-416166933	51N	34W	28	Brown trout	Wild Rose	6,000 YR		
		VERMILAC (WORM) LAKE	48N	34W	24	Walleye	Bay De Noc	15,550 SF		
	Gogebic	BEATONS LAKE	45N	41W	1	Rainbow trout	Eagle Lake	5,000 YR		
		BEATONS LAKE	45N	41W	1	Splake	Hybrid	5,000 YR		
		BLACK R. Hedberg Rd.	48N	46W	32	Brook trout	Assinica	950 YR		
		BLACK R. Hedberg Rd.	48N	46W	32	Brown trout	Gilchrist Creek	950 YR		
		BLACK R. Mosinee Grade	46N	46W	28	Brook trout	Assinica	950 YR		
		BLACK RIVER HARBOR	49N	46W	3	Brown trout		15,000 YR		
		BLACK RIVER HARBOR	49N	46W	3	Chinook salmon	Michigan	75,000 SF		
		BLACK RIVER HARBOR	49N	46W	3	Rainbow trout	Michigan	1 FF		
		Black River net pen	49N	46W	3	Chinook salmon	Michigan	15,000 SF		
		CAMP NINE ROAD	48N	46W	17	Brown trout	Gilchrist Creek	950 YR		
		CASTLE LAKE	45N	38W	9	Brook trout	Assinica	2,800 FF		
		CORNELIA LAKE	45N	42W	25	Brook trout	Assinica	1,050 YR		
		HARDING ROAD	47N	46W	29	Brook trout	Assinica	500 YR		
		HILL AVENUE	47N	46W	17	Brook trout	Assinica	500 YR		
		IMP LAKE	44N	38W	16	Splake	Hybrid	3,360 YR		
		LITTLE DUCK LAKE	44N	39W	7	Rainbow trout	Eagle Lake	3,000 YR		
		Western	Gogebic	OLD COUNTY ROAD	47N	46W	16	Brook trout	Assinica	500 YR
				REDBOAT LAKE	46N	44W	35	Brook trout	Assinica	2,000 FF
				US-2	47N	46W	8	Brook trout	Assinica	500 YR
Houghton	CLEAR LAKE		51N	36W	4	Brook trout	Assinica	1,900 YR		
	East Branch at Lake 13 Road Bridge		47N	36W	15	Rainbow trout	Michigan	35,000 YR		
	EMILY LAKE		52N	36W	34	Rainbow trout	Eagle Lake	5,000 YR		
	LAKE ON THREE		47N	36W	34	Rainbow trout	Eagle Lake	1,250 YR		
	OTTER LAKE		52N	34W	11	Walleye	Bay De Noc	10,000 SF		
	PENEGORE LAKE		49N	36W	30	Brook trout	Assinica	440 FF		
	PERRAULT LAKE		54N	35W	34	Brook trout	Assinica	150 A		
	PERRAULT LAKE		54N	35W	34	Brook trout	Assinica	3,250 FF		
	PORTAGE LAKE		55N	34W	36	Walleye	Bay De Noc	100,000 SF		
	PORTAGE LAKE		55N	34W	36	Walleye	Bay De Noc	1,500,000 FR		
Iron	ROLAND LAKE		52N	36W	22	Lake trout		400 A		
	ROLAND LAKE		52N	36W	22	Rainbow trout	Eagle Lake	6,500 YR		
	Upper Trap Rock River		56N	32W	16	Brook trout	Assinica	400 YR		
	HANNAH (WEBB) LAKE		46N	35W	30	Rainbow trout	Eagle Lake	3,200 YR		
	KILLDEER LAKE		46N	37W	29	Brook trout	Assinica	800 FF		
Keweenaw	COPPER HARBOR		59N	28W	32	Splake	Hybrid	25,000 YR		
	FANNY HOOE LAKE 533		59N	28W	33	Lake trout		200 A		
	LOST LAKE		58N	28W	14	Brook trout	Assinica	600 FF		
	MANGANEE LAKE		58N	28W	5	Lake trout		200 A		
	NO NAME POND		57N	31W	8	Brook trout		50 A		
Marquette	NO NAME POND		57N	31W	8	Brook trout	Assinica	250 YR		
	ANGELINE LAKE		47N	27W	10	Brown trout		4,000 YR		
	ANGELINE LAKE		47N	27W	10	Lake trout		1,000 A		
	CARP RIVER		48N	25W	34	Brown trout		1 FF		
	CARP RIVER		48N	25W	34	Chinook salmon	Michigan	100,000 SF		
	CARP RIVER		48N	25W	34	Rainbow trout	Michigan	1 FF		
	CARP RIVER		48N	25W	34	Rainbow trout	Michigan	13,000 YR		
	DEAD RIVER		48N	25W	10	Chinook salmon	Michigan	100,000 SF		
	Highway M-35		48N	26W	34	Brook trout	Assinica	750 YR		

(Attachment 3, continued)

Lake Superior							Number	Age		
Mgt. Unit	County	Stocking Site Name	Twn.	Rng.	Sec.	Species	Strain	of fish class		
Western	Marquette	Lower Dead River net pen	46N	25W	9	Chinook salmon	Michigan	100,000	SF	
		MARQUETTE BAY-SPEARS COAL DOCK	48N	25W	23	Splake	Hybrid	25,000	YR	
		Negaunee, North Road	48N	26W	30	Brook trout	Assinica	750	YR	
		PIER DELIGHT	48N	26W	31	Lake trout		500	A	
		PIER DELIGHT	48N	26W	31	Muskellunge	Great Lakes	2,000	FF	
		PIER DELIGHT	48N	26W	31	Walleye	Bay De Noc	1,000,000	FR	
		SILVER LAKE BASIN	49N	28W	8	Bluegill		10,000	A	
		SUNDSTROM LAKE (HOIST BASIN)	48N	26W	8	Lake trout		2,500	A	
		SUNDSTROM LAKE (HOIST BASIN)	48N	26W	8	Lake trout		50,000	SF	
		Tourist Park Impoundment	48N	25W	10	Bluegill		5,500	SF	
		Tourist Park Impoundment	48N	25W	10	Smallmouth bass		100	A	
		Tourist Park Impoundment	48N	25W	10	Smallmouth bass		5,500	SF	
		Tourist Park Impoundment	48N	25W	10	Yellow Perch		11,000	SF	
		UPPER DEAD RIVER	49N	28W	17	Brook trout	Assinica	900	YR	
		YELLOW DOG RIVER	50N	29W	13	Brook trout	Assinica	3,000	YR	
		YELLOW DOG RIVER-411069225	50N	27W	17	Brown trout	Gilchrist Creek	2,000	YR	
		YELLOW DOG RIVER-411069225	50N	27W	17	Rainbow trout	Eagle Lake	2,000	YR	
		YELLOW DOG RIVER-411185082	50N	28W	13	Brown trout	Gilchrist Creek	1,000	YR	
		YELLOW DOG RIVER-411185082	50N	28W	13	Rainbow trout	Eagle Lake	1,000	YR	
		YELLOW DOG RIVER-411300939	50N	28W	20	Brown trout	Gilchrist Creek	1,000	YR	
		YELLOW DOG RIVER-411300939	50N	28W	20	Rainbow trout	Eagle Lake	1,000	YR	
		Ontonagon	Amber 1 Rearing pond	49N	39W	18	Walleye	Bay De Noc	250,000	FR
			Amber 2 Rearing Pond	49N	39W	7	Walleye	Bay De Noc	200,000	FR
			Big Iron River net pen	51N	42W	12	Chinook salmon	Michigan	25,000	SF
			BOND FALLS FLOWAGE	46N	38W	8	Walleye	Bay De Noc	50,000	SF
			COURTNEY LAKE	50N	37W	4	Brook trout		300	A
COURTNEY LAKE	50N		37W	4	Lake trout		300	A		
FIRESTEEL RIVER	52N		39W	1	Brown trout		10,000	YR		
Firesteel, Hardley Able Bridge	52N		38W	27	Rainbow trout	Michigan	25,000	YR		
Firesteel, Hardley Able Bridge	52N		38W	27	Rainbow trout	Michigan	50,000	FF		
M. B. ONTONAGON RIVER BELOW AGATE	47N		38W	5	Brown trout		5,000	FF		
MID BR ONTONAGON RIVER	47N	39W	36	Brook trout	Assinica	4,000	YR			

Lake Superior									Number	Age
Mgt. Unit	County	Stocking Site Name	Twn.	Rng.	Sec.	Species	Strain		of fish	class
Western	Ontonagon	MIRROR LAKE	50N	44W	2	Splake	Hybrid		3,000	YR
		PAULDING POND	46N	39W	15	Brook trout	Assinica		525	YR
		PICNIC SITE	50N	39W	27	Brown trout			45,000	FF
		PICNIC SITE	50N	39W	27	Walleye			20,000	SF
		PICNIC SITE	50N	39W	27	Walleye			1,000,000	FR
		SILVER CITY	51N	42W	12	Chinook salmon	Michigan		100,000	SF
		TROUT CREEK POND	47N	38W	14	Brook trout	Assinica		250	YR
		VICTORIA ROAD BRIDGE	50N	39W	20	Lake sturgeon			5,000	FF
Eastern	Alger	ACKERMAN LAKE	45N	20W	3	Rainbow trout	Eagle Lake		750	YR
		ADDIS LAKE	46N	20W	33	Brook trout	Assinica		1,500	SF
		ANNA RIVER 2	46N	19W	15	Rainbow trout	Michigan		50,000	FF
		AU TRAIN FALLS	46N	20W	31	Brown trout	Gilchrist Creek		300	YR
		AU TRAIN RIVER - USFS 2276	46N	20W	17	Brown trout	Gilchrist Creek		700	YR
		Cox Pond	46N	19W	13	Brook trout	Assinica		350	FF
		DEER LAKE	47N	21W	17	Rainbow trout	Eagle Lake		5,000	YR
		DEER LAKE	47N	21W	17	Rainbow trout	Michigan		5,000	YR
		DEER LAKE	47N	21W	17	Walleye	Bay De Noc		4,000	SF
		KINGSTON LAKE	48N	15W	6	Muskellunge	Northern		300	FF
		MUNISING BAY-CITY DOCK	46N	19W	2	Splake	Hybrid		35,000	YR
		Sitka Lake	48N	13W	9	Brook trout	Assinica		620	YR
	Chippewa	LAKESHORE POND	47N	05W	13	Walleye			150,000	FR
		LOWER FALLS	49N	07W	32	Walleye	Bay De Noc		10,000	SF
		LOWER M-123 BRIDGE	48N	06W	15	Walleye	Bay De Noc		10,000	SF
		NAOMIKONG LAKE	47N	06W	24	Brook trout			800	SF
		NAOMIKONG POND	47N	05W	17	Brook trout	Assinica		400	FF
	Luce	BEAVERHOUSE LAKE	49N	11W	34	Walleye	Bay De Noc		800	SF
		BELLE LAKE 1	47N	12W	9	Splake	Hybrid		3,000	YR
		BELLE LAKE 1	47N	12W	9	Walleye			3,000	SF
		BODI LAKE	50N	08W	29	Walleye			7,500	SF
		BROCKIES POND	46N	11W	1	Brook trout	Assinica		300	FF
		BULLHEAD LAKE	49N	11W	34	Brook trout	Assinica		250	YR
		CAMP 8 LAKE	49N	11W	34	Rainbow trout	Eagle Lake		3,300	YR

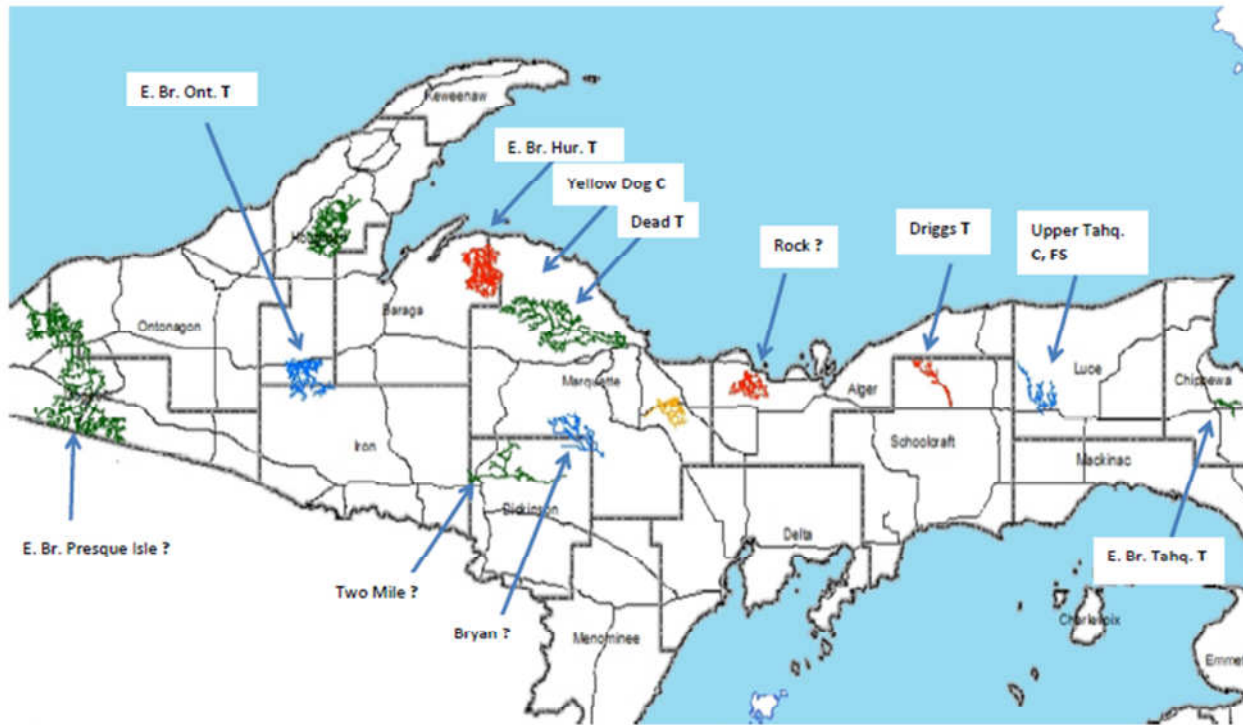
(Attachment 3, continued)

Lake Superior								Number	Age	
Mgt. Unit	County	Stocking Site Name	Twn.	Rng.	Sec.	Species	Strain	of fish	class	
Eastern	Luce	CO RD 460 BRIDGE	45N	10W	11	Brook trout	Assinica	150	YR	
		CULHANE LAKE	50N	08W	30	Walleye		4,000	SF	
		DEER LAKE	49N	11W	34	Brook trout	Assinica	700	FF	
		DILLINGHAM LAKE	48N	12W	16	Brook trout	Assinica	300	YR	
		FOLEY HILL ROAD	45N	10W	2	Brook trout	Assinica	150	YR	
		HOLLAND LAKE	49N	11W	27	Brook trout	Assinica	350	FF	
		LITTLE LAKE HARBOR	50N	08W	19	Walleye		3,000	SF	
		MOON LAKE	48N	12W	35	Brook trout	Assinica	1,000	FF	
		PEANUT LAKE	47N	11W	30	Brown trout	Gilchrist Creek	1,000	YR	
		PIKE LAKE	49N	09W	15	Walleye	Bay De Noc	6,000	SF	
		PRATT LAKE	49N	11W	28	Rainbow trout	Eagle Lake	1,100	YR	
		PRETTY LAKE	49N	11W	34	Splake	Hybrid	1,000	YR	
		REED & GREEN BRIDGE	49N	10W	11	Rainbow trout	Michigan	9,000	YR	
		SID LAKE	49N	11W	33	Brook trout	Assinica	600	FF	
		SILVER CREEK POND	47N	11W	35	Brook trout	Assinica	1,000	SF	
		SYPHON LAKE	47N	11W	19	Brook trout	Assinica	300	SF	
		TANK LAKE	49N	12W	36	Splake	Hybrid	2,000	YR	
		TEASPOON CREEK	45N	10W	3	Brook trout	Assinica	200	YR	
		TROUT LAKE	49N	11W	10	Brook trout	Assinica	250	FF	
		UPPER FALLS STAIRWAY	48N	08W	12	Brown trout	Gilchrist Creek	4,000	YR	
		WARD LAKE	48N	12W	27	Brook trout	Assinica	50	A	
		WARD LAKE	48N	12W	27	Brook trout	Assinica	350	FF	
		WOLVERINE LAKE	47N	11W	34	Rainbow trout	Eagle Lake	500	YR	
		YOUNGS LAKE	47N	11W	29	Brook trout	Assinica	50	A	
		YOUNGS LAKE	47N	11W	29	Brook trout	Assinica	575	SF	
		Marquette	BIG TROUT LAKE	46N	24W	31	Rainbow trout	Eagle Lake	1,800	FF
			SILVER POND	46N	24W	32	Brook trout	Assinica	800	FF
			SPORLEY LAKE	46N	24W	31	Brown trout	Gilchrist Creek	1,000	YR
	SPORLEY LAKE		46N	24W	31	Lake trout		100	A	
	SPORLEY LAKE		46N	24W	31	Splake	Hybrid	1,000	YR	
	STRAWBERRY LAKE		47N	25W	33	Brook trout		100	A	
	STRAWBERRY LAKE		47N	25W	33	Brook trout	Assinica	1,125	YR	

(Attachment 4)

Study Design to evaluate 10-brook trout bag limit rivers.

10 brook trout bag limit study rivers



T = Treatment (10 BKT bag); C = Control; FS = Fixed Site; ? = Possible candidate river for 2015

"x" indicates sampling from 2013-17

River segment	Treatment*, Control, Fixed Site	Creel & opinion	Postcard opinion	Spring EF **	Summer EF**	Sampling site	Method
E Br Huron (Baraga & Marquette counties)	T		x				
E Br Ontonagon (Houghton and Iron counties)	T		x				
Driggs (Schoolcraft County)	T		x				
Dead-Mulligan (Marquette County)	T		x	x	x	near Rocking Chairs	Barge or 2 bkpks
Yellow Dog (Marquette County)	C		x	x	x	upstream of CR510	Barge
E Br Tahquamenon (Chippewa County)	T	x	x		x	M28 (FS site)	2 bkpks
Upper Tahquamenon (Luce County)	C-FS	x	x		x	S&T site	Barge
Bryan Creek (Marquette and Dickinson counties)	?	x	x	x	x	above Big Brook	2 bkpks
Two Mile Creek (Dickinson County)	?	x	x	x	x	to be determined	Barge or 2 bkpks
Lower Rock (Alger County)	?		x		x	2nd brdg S of M28	2 bkpks
Rock (Alger County)	?		x		x	S&T site	Barge
E Br Presque Isle (Gogebic County)	?		x				

* 10-brook trout bag limit for five treatment (T) streams beginning in 2013 and for three additional "?" streams starting in 2015

**1000 ft EF Station length as per STP fixed site protocols / Relative abundance (CPE); Size structure; Growth; Mortality

(Attachment 4, continued)

Upper Peninsula Brook Trout River Angler Survey

The Michigan DNR, Fisheries Division, is investigating brook trout fisheries on select rivers across the Upper Peninsula, including five rivers where an experimental 10-brook trout bag limit regulation is in place as of April 1, 2013. In order to evaluate the public response and potential biological effects of this regulation, Fisheries Division is conducting surveys to collect feedback from anglers.

Evaluations of fishing success and angler attitudes play a key role in proper fisheries management. The attached survey card will help document angler catch rates and opinions regarding each river.

The card is self-explanatory; simply answer the questions as instructed. Please fill out one card per person per trip. If you make multiple trips while the survey is being conducted you may fill out one card for each fishing trip. For your convenience, the cards are addressed and postage has been paid; simply drop the card in the mail after you fill it out.

Also, if you prefer, this same survey may be completed on the Internet at:

<http://www.surveymonkey.com/s/brooktroutanglersurvey>

We appreciate your cooperation and thank you for your participation in this survey. If you have any questions or comments please contact us at DNR-FISH-brooktrout@michigan.gov.



Brook Trout Angler Survey

Date fished: ____/____/____

Your ZIP Code: _____

Time spent fishing: ____ hours ____ minutes

When you catch legal-sized trout, do you usually: keep or release them?

Rank these factors if any were important in your choice to fish here today.

(use numbers 1 - 4 with 1 being the most important)

____ I know the river ____ quality of fishing

____ closest to home ____ brook trout bag limit on this river

How does/would having a 10-brook trout bag limit on a river influence how often you would fish there? ____ *More often* ____ *Less often* ____ *No Effect*

In your opinion, how does/would having a 10-brook trout bag limit affect a river's brook trout population? ____ *Positively* ____ *Negatively* ____ *No Effect*

Which brook trout bag limit do you prefer for all UP rivers? (mark only one)

____ *5-fish* ____ *10-fish*

How many brook trout (per size category) did you keep or release today?

	< 7 inches	7—9.9 inches	≥10 inches
<i>Kept</i>			
<i>Released</i>			